

# CATHETER FOR CONTROLLED STENT DELIVERY

## ABSTRACT OF THE DISCLOSURE

A catheter having a catheter shaft and a medical balloon mounted thereon. The  
5 medical balloon having a non-inflated state and being inflatable to an inflated state. The  
medical balloon having a stent mounting region, with a stent being disposed about at  
least a portion of the stent mounting region. The stent mounting region having a middle  
portion, a first end portion adjacent to the middle portion and a second end portion  
adjacent to the middle portion. The middle portion having a middle portion diameter, the  
10 first end portion having a first end portion diameter, the second end portion having a  
second end portion diameter. In the non-inflated state the middle portion diameter being  
different from the first end portion diameter and the second end portion diameter, in the  
inflated state the middle portion diameter being substantially the same as the fist end  
portion diameter and the second end portion diameter.

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